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UNIVERSITY OF PITTSBURGH BULLETIN

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SCHOOL OF DENTISTRY

1922-1923

PITTSBURGH, PENNSYLVANIA.
PUBLISHED BY THE UNIVERSITY.

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The University of Pittsburgh Bulletin is published by the University of Pittsburgh and is issued tri-monthly. Entered March 13, 1914, at the Postoffice at Pittsburgh, Pa., as second-class matter under Act of Congress of August 24, 1912.

BOARD OF TRUSTEES OF THE UNIVERSITY OF PITTSBURGH

1922-23

The Governor of the Commonwealth of Pennsylvania (*Honorary*)
The Mayor of the City of Pittsburgh
The Chancellor of the University

Class I. Term Expires June, 1924

Elected		
1893	Andrew William Mellon	Pittsburgh
1900	James Henry Lockhart	Pittsburgh
1903	Thomas Harlan Baird McKnight	Pittsburgh
1903	Thomas Patterson	Pittsburgh
1911	John Knox McClurkin	Pittsburgh
1912	John Crawford Wallace	New Castle
1913	Alfred Reed Hamilton	Pittsburgh
1917	William Lewis Clause	Pittsburgh
1917	Benjamin Gilbert Follansbee	Pittsburgh
1919	Ogden Mathias Edwards, Jr.	Pittsburgh

Class II. Term Expires June, 1925

1890	Benjamin Thaw	Pittsburgh
1904	William Lucien Scaife	Pittsburgh
1907	Joseph Clifton Trees	Pittsburgh
1908	Walther Riddle	Pittsburgh
1914	George Sturgis Oliver	Pittsburgh
1916	Richard Beatty Mellon	Pittsburgh
1918	George Breed Gordon	Pittsburgh
1920	Charles Wesley Ridinger	Pittsburgh
1920	Isaac William Frank	Pittsburgh
1909	Edward Vose Babcock	Pittsburgh

Class III. Term Expires June, 1923

1882	Rt. Rev. Cortlandt Whitehead	Pittsburgh
1889	William Jacob Holland	Pittsburgh
1902	George Hubbard Clapp	Pittsburgh
1906	Howard Heinz	Pittsburgh
1907	Andrew Jackson Kelly	Pittsburgh
1907	Samuel Alfred Taylor	Pittsburgh
1914	Henry Clay McEldowney	Pittsburgh
1920	David Aiken Reed	Pittsburgh
1920	William Penn Snyder, Jr.	Pittsburgh
1920	Homer David Williams	Pittsburgh

CALENDAR FOR 1922-1923

1922

September 5.....Tuesday—Infirmary opens.

September 25.....Monday—First Semester begins 9 A. M.

Christmas recess—No lectures... Saturday, December 23, to Tuesday, January 2, both inclusive.

Infirmary closed from December 24 to January ´ both inclusive.

1923

First Semester ends.....Saturday, February 3

Second Semester begins.....Monday, February 5

Second Semester ends.....Saturday, June 2

Commencement.....Wednesday, June 13

FACULTY

John Gabbert Bowman, A.B., LL.D., Chancellor.
H. Edmund Friesell, B.S., D.D.S., L.L.D., F.A.C.D., Dean, Professor of Operative Dentistry.
Samuel Black Linhart, A.M., D.D., Secretary.
John Gilbert Quick, B.S., Registrar.
James Steele Gow, A.B., Assistant to the Chancellor.
Owen Lovejoy Hertig, A.M., D.D.S., Professor of Dental Pathology and Therapeutics and Operative Clinician.
John Stewart Ashbrook, D.D.S., Professor of Dental Anatomy, Dental Medicine and Comparative Dental Anatomy.
Stewart Leroy McCurdy, A.M., M.D., F.A.C.S., Professor of Anatomy, Oral and General Surgery.
Clement Russell Jones, M.D., F.A.C.P., Professor of General Pathology, Materia Medica and Therapeutics.
William Lincoln Fickes, D.D.S., Professor of Dental Ceramics, and Hygiene.
Frederick Charles Friesell, D.D.S., Professor of Histology and Bacteriology.
Albert Floyd Judd, Pharm.D., Professor of Chemistry and Metallurgy.
John Flocker Biddle, D.D.S., F.A.C.D., Professor of Clinical Pathology, Radiology and Minor Surgery.
Robert Zugsmith, D.D.S., Professor of Physiology and Embryology.
Cecil Oliver Booth, D.D.S., Professor of Prosthetic Dentistry.

ASSISTANT PROFESSORS

Lucius Wallace Ohl, D.D.S., Anesthesia and Exodontia.
John St. Clair Hipple, D.D.S., Dental History and Rhetoric.
William Andrew Dunn, D.D.S., Chemistry and Metallurgy.
Walter Henry Wright, D.D.S., Anatomy and Clinical Prosthesis.
Harry Cameron Metz, B.S., D.D.S., Physics and Orthodontia.
Alfred Clyde Young, D.D.S., Crown and Bridgework.
Thurlow Weed Brand, B.S., D.D.S., Biology and Technical Drawing.

LECTURERS

Patrick Vincent McParland, D.D.S., Operative Technics and Dental Jurisprudence.
Arthur Bowman French, D.D.S., Operative Technics and Ethics.
Roy G. Pearce, A.B., M.D., Physiology.
William Barr Coulter, D.D.S., Economics and Operative Technics.

DEMONSTRATORS AND ASSISTANTS

Leslie Waddill, D.D.S., Dental Anatomy.
Thomas Zwingli Plank, D.D.S., Crown and Bridgework.
Ord M. Sorber, D.D.S., Clinical Dentistry, Operative Technics.
Leonard Quaill Calihan, D.D.S., Operative Technics.
Albert Edgar Fawcett, D.D.S., Chemistry and Metallurgy.

Frank Oliver Hood, D.D.S., Anesthesia and Exodontia.
Andrew M. Martin, D.D.S., Clinical Dentistry.
Carl Raymon Garman, D.D.S., Crown and Bridgework.
Joseph S. Matson, D.D.S., Operative Technics.
Courtney Otto Bischoff, D.D.S., Prosthetic Technics.
John Bain Sutherland, D.D.S., Crown and Bridgework.
George W. Allison, D.D.S., Clinical Dentistry and Prosthetic Technics.
Albert Laurence Bartlett, D.D.S., Clinical Dentistry.
*John L. Boots, D.D.S., Clinical Dentistry and Technical Drawing.
Albert L. H. Finley, D.D.S., Prosthetic Technics.
Carl Henry Muth, D.D.S., Clinical Dentistry.
Charles A. McGuire, D.D.S., Physiology.
Lawrence Edward Van Kirk, B.S., D.D.S., Histology and Bacteriology.
Bruce P. Rial, D.D.S., Ceramics.
William M. Furnier, D.D.S., Anesthesia and Exodontia.
Clarence W. Hagan, D.D.S., Operative Technics.
Louis McMasters, D.D.S., Clinical Dentistry.
Harry A. Monson, D.D.S., Clinical Dentistry.
Clair M. Bunting, D.D.S., Prosthetic Technics.
Donald S. Carnahan, D.D.S., Prosthetic Technics.
Harry E. Fetters, D.D.S., Prosthetic Technics.
William Reid Latimer, D.D.S., Prosthetic Technics and Clinical Dentistry.
Edward A. Stahl, D.D.S., Crown and Bridgework.
Paul Trnavsky, D.D.S., Ceramics.
Edward H. Moore, D.D.S., Clinical Prosthesis.
H. Jobe Sedwick, D.D.S., Anesthesia and Exodontia.
Ernest Mark Breed, D.D.S., Clinical Dentistry.
William Henry Barrett, D.D.S., Clinical Prosthesis.
Robert Neilson Bossart, D.D.S., Prosthetic Technics.
Isaac Ralph Burbridge, D.D.S., Orthodontia.
Alfred Robert Rinehart Davies, D.D.S., Prosthetic Technics.
Roscoe A. Gougler, D.D.S., Clinical Prosthesis.
Walter Sidney Hanna, D.D.S., Prosthetic Technics.
Russell Edwin Irish, D.D.S., Orthodontia.
Michael Arthur Komara, D.D.S., Prosthetic Technics.
John McCrory, D.D.S., Prosthetic Technics.
David Ralph McMonigle, D.D.S., Crown and Bridgework and Pathology.
Samuel Glenn Major, D.D.S., Clinical Dentistry and Pathology.
Emanuel George Meisel, D.D.S., Clinical Dentistry.
Clarence Montgomery Orr, D.D.S., Clinical Dentistry.
Roy Ellwood Prigg, D.D.S., Prosthetic Technics.
Harry Saul, D.D.S., Crown and Bridgework.
William Norman Stein, D.D.S., Prosthetic Technics.
Elmer Joseph Stevens, D.D.S., Histology and Bacteriology.
Thomas Darius Williams, D.D.S., Histology and Bacteriology.
Mona Scott, Cashier of Infirmary.
Eleanor Reed, Laboratory Technician.
Emily Jane McNary, Librarian.

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*On leave of absence—Severance Union Medical College, Seoul, Korea.

GENERAL INFORMATION

HISTORY OF THE UNIVERSITY

The University of Pittsburgh was granted a charter by the Commonwealth of Pennsylvania as Pittsburgh Academy in 1787. In 1819 a second charter was granted, creating the Western University of Pennsylvania as the legal successor of the Pittsburgh Academy. In 1908 its name was changed to the University of Pittsburgh. Thus the University has had a continuous history of one hundred and thirty-five years.

Since its removal in 1908 to the present location in Oakland, in the great educational and civic center of Pittsburgh, the attendance has increased from 1,240 to 6,518 students.

The University of Pittsburgh was founded by the State to provide higher education in Western Pennsylvania. Throughout its history the University has been partially supported by the State.

The Alumni of the University, many of whom are among the leading citizens of Pennsylvania, have rendered efficient service in every department of the varied life and interests of the State.

Sound scholarship and an atmosphere which promotes the spiritual life of students and Faculty have always been characteristic of the University.

At the present time the University includes the following Schools, named in the order of their founding: The College, Astronomy, (Allegheny Observatory) Engineering, Law, Medicine, Pharmacy, Dentistry, Mines, Education, Economics, also the Graduate School and the Mellon Institute.

The Evening School of Economics, Accounts and Finance and Saturday and Evening Classes offer courses to those who are unable to attend the regular classes.

A more complete history of the University will be found in the General Catalog.

The building for the School of Dentistry was erected on the University Campus, and dedicated June 18, 1912. It is perfectly arranged for its special purposes, is devoted entirely to the teaching of dentistry, and has been thoroughly fitted out with the very latest and most improved equipment and teaching appliances.

The extraordinary growth of the School of Dentistry and of the Clinic has made it necessary to provide additional quarters. Plans for a new building were completed, but building conditions being found impossible, the Trustees of the University have purchased the building of the Central Athletic Association at the corner of Thackeray and O'Hara Streets (adjoining the University Campus), for the use of the Dental School until such time as it may prove possible to erect a new building.

The newly acquired property has added greatly to the clinical facilities, and practically all of the work of the Senior and Junior classes is conducted therein. The present Dental Building will be used almost entirely for the Freshman and Sophomore classes.

The laboratories are supplied with electric lathes, compressed air, gas and electricity. The infirmary contains the latest model operating chairs, sanitary washstands, a sterilizing room, etc. Steel operating tables, and steel lockers are provided.

Complete arrangements have been made for the treatment of oral surgery cases, and private rooms have been provided for anæsthesia, extracting, orthodontia, etc.

During the past year more than thirty-five thousand patients were treated in the Infirmary. In addition to this abundant clinic which affords an invaluable experience to the student, outside clinics have been established at the various homes, asylums, and penal institutions of the county, one of which has over twelve hundred inmates, and senior students who show marked ability are assigned to this special work, where they have an exceptional opportunity to gain valuable experience in the personal management of interesting cases.

A candidate for the degree of Doctor of Dental Surgery must have attended four full courses of lectures in some reputable dental college, the last one of which must be in this School. He must be twenty-one years of age, and of good moral character.

REQUIREMENTS FOR ADMISSION

The School of Dentistry is a member of the National Association of Dental Faculties, and conforms to all its regulations.

The preliminary education required by the State of Pennsylvania for admission to a dental school is graduation from a first class four year high school. This course must include four years of English, one year of Mathematics, one year American History and Civics and one year of science. The science may be Physics, Chemistry, Biology or General Science. The other subjects are elective. This school exacts the same entrance requiremnts as the State of Pennsylvania.

All dental students are required by the Pennsylvania State Law to secure Dental Students' Certificates from the Bureau of Professional Education of the State. Information in regard to the procuring of these certificates may be had by applying to the Dean of the Dental School.

For the accommodation of students of mature age who have not had a complete high school course, the Bureau of Professional Education conducts entrance examinations, and credits earned by passing these examinations are accepted as the equivalent of high school credits. Entrance examinations are held in February, June and September.

Students, to obtain credit for a full term, must be and remain in attendance until the close of the session. A minimum attendance of 85% is required.

Students presenting credentials from reputable schools, medical, scientific or literary, for work done in branches taught in this school, and covering these branches fully or in clearly definite part, will be credited for such work, provided that such credits shall amount to as much as one-half year.

VACCINATION

The State and City laws require each student in a public educational institution to present to the authorities thereof a certificate of vaccination. A blank form will be furnished each new student to be filled out and filed with the Dean when the student enters school.

STATE ENTRANCE EXAMINATIONS

August 29 and 30, 1922.
First week of February and First week of June, 1923.

COMBINED COURSES FOR B.S. and D.D.S. DEGREES

Students who have completed three years in the College of the University for the Bachelor of Science degree will be given that degree at the end of the freshman year in the School of Dentistry. This enables the student to receive both degrees in seven years, and the three years of College work will be of inestimable value to him in his dental course.

HOW TO REACH THE SCHOOL

From Pittsburgh's business center take any car running out Forbes Street or Fifth Avenue to Thackeray Street; the School of Dentistry is located directly north at the corner of Thackeray and O'Hara Streets.

BOARD AND LODGING

There are no residence halls for the use of students, but board and lodging may be obtained from private families who live near the School in the Oakland, Bellefield and Herron Avenue districts. Students may apply at the Office of the Housing Committee of the University for a list of approved living quarters.

TELEPHONE AND MAIL ADDRESSES

Address all letters regarding catalog, matriculation, entrance requirements, examinations, etc., to the Dean of the School of Dentistry, University of Pittsburgh, Pittsburgh, Pa.

The School of Dentistry is reached by phone through the general University Exchange, Schenley 3300. Private lines to the various departments, including Dean's office.

COURSES OF INSTRUCTION

FOUR-YEAR COURSE

Freshman Year

	Lecture Hours	Laboratory Hours	Total Hours
Physics	32	64	96
Chemistry and Metallurgy	64	192	256
Biology	64	128	192
Technical Drawing	—	96	96
Dental Anatomy	32	96	128
Prosthesis	32	256	288
		Total -	1056

Sophomore Year

	Lecture Hours	Laboratory Hours	Total Hours
Prosthesis	32	128	160
Anatomy	64	224	288
Physiology	64	80	144
Histology	32	96	128
Organic and Physiological Chemistry	32	96	128
Operative Dentistry	32	160	192
Bacteriology	32	96	128
		Total -	1168

Junior Year

Prosthesis	—	64	64
Materia Medica	32	—	32
Dental Rhetoric and Seminar	32	—	32
Surgery	16	—	16
General and Dental Pathology	64	112	176
Operative Dentistry	32	288	320
Dental Medicine and Pharmacology	32	32	64
Crown and Bridgework	32	192	224
Orthodontia	32	32	64
Ceramics	32	32	64
Oral Hygiene	16	32	48
		Total -	1104

Senior Year

Prosthesis	—	96	96
Dental Rhetoric and Seminar	64	—	64
Operative Dentistry	32	640	672
Anesthesia	32	32	64
Oral Surgery	32	64	96
Crown and Bridgework	—	192	192
Orthodontia	—	32	32
Radiology	16	16	32
Therapeutics	32	—	32
History, Economics, Ethics and Jurisprudence	32	—	32
		Total -	1312

This schedule is subject to change without notice.

DEPARTMENTS OF INSTRUCTION

OPERATIVE DENTISTRY

PROFESSOR H. E. FRIESELL

The principles and practice of Operative Dentistry are taught by the application of systematic procedures to operations in classes, so that a correct judgment may be formed as to their application in particular operations.

The same method of instruction will be applied by clinical instructors, the classes being divided into sections.

Modern and accepted methods will be exemplified.

INSTRUMENTS—Each student, before beginning his work, is required to procure the instruments necessary for his use, a list of which will be furnished. Each Junior and Senior student is required to have a dental engine.

OPERATIVE TECHNICS

PROFESSOR H. E. FRIESELL

The object of this course is to familiarize the student with the organs to be operated upon, together with the principles that underlie all operations upon the teeth, and provide a systematic course in manual training.

This course includes: Sectioning of teeth through various surfaces in order to gain a knowledge of the inception and progress of caries; the preparation of cavities of each class in enlarged plaster models; preparing cavities in extracted teeth and celluloid tooth forms, and filling the same with gold; the use of the various forms of gold and other filling materials; opening, enlarging and filling root canals; bleaching, scaling, and as far as possible all operative procedures in detail; instruments and instrumentation.

CLINICAL DENTISTRY

PROFESSOR H. E. FRIESELL

A review of the technical procedures taught in the preceding years will be followed by a course of lectures and recitations covering the whole field of the principles and practice of Operative Dentistry.

The Operative Clinic is open daily from ten to four o'clock throughout the year, except during the months of July and August, and is in charge of the professor and demonstrators of operative and clinical denistry. The principles learned in the technic course are carried out in the infirmary, and this course is made as much like an actual practice as possible.

CROWN AND BRIDGEWORK

ASSISTANT PROFESSOR YOUNG

A complete course in crown work, including the preparation of roots and the making of all the acceptable styles of crowns is covered.

Bridgework, both fixed and removable; the repairing of crowns and bridges, and the whole subject of gold inlays are treated. Baked crowns and porcelain bridges are covered in the department of Ceramics.

DENTAL PATHOLOGY AND THERAPEUTICS

Professor Hertig

Lectures from this chair will comprise instruction in the principles of dental pathology, indication and elements of disease, pathological dentition, pathological eruptions, dental caries and its results, odontalgia, periodontitis, alveolar abscess, necrosis, pyorrhea alveolaris, and all the various diseases of the teeth and associate parts, with the therapeutic agents and materials used in the treatment and correction of the same.

Private operative clinics, covering every practical operation, will be given before the Junior class in sections.

PROSTHETIC DENTISTRY

Professor Booth, Assistant Professor Wright

The course will cover Prosthetic Technics, followed by the preparation of the mouth for dentures, impressions, methods of constructing various bases, and the treatment of metals and alloys which may be of value in dentistry.

Continuous gum work, artificial vela, methods of making and adjusting appliances for fractures of the maxillæ, will be taught and exemplified, as far as possible by practical work in the clinic.

ANESTHESIA AND EXODONTIA

Assistant Professor Ohl

Anesthesia will be taught by lectures, and by demonstrations in the infirmary; will cover the whole field of local and general anesthetics, the use, complications and dangers of each, and the means of preventing and treating accidents arising from their use.

Lantern slides, sections of the maxillary bones and wet specimens will be used in clinics given to small sections in order to exemplify the methods of producing local anesthesia and the technique of extraction.

Particular attention will be given to difficult cases of extraction, impacted teeth, etc., and the treatment of hemorrhage and such other accidents as may accompany extracting. Each student will be required to administer anesthetics, and to extract, under the personal supervision of the teacher of this subject.

DENTAL ANATOMY

Professor Ashbrook

This course will consist of the drawing, carving and dissection of the various teeth and the study of their surfaces, ridges, fossæ, grooves, pulp chambers, pulp canals, etc.

Systematic nomenclature; the importance of the proper contact of approximating teeth; normal occlusion, and the relation of the teeth to the soft tissues receive thorough consideration.

COMPARATIVE DENTAL ANATOMY

PROFESSOR ASHBROOK

In this division of general anatomy the student will be taught comparative anatomy by the study of animal life, beginning with the lowest forms, and leading up to the highest in regular gradation; taking the teeth *seriatim* from the lowest types, and showing their progressive evolution from simple to complex forms, demonstrated by skulls, models, charts and stereopticon.

This subject is a strong factor in emphasizing the importance of the law of occlusion.

DENTAL MEDICINE AND PHARMACOLOGY

PROFESSOR ASHBROOK

This course will cover fully all remedial agents that belong properly to the special field of dental medicine, and will discuss briefly the most important general remedies that may be available in dental diseases and emergencies.

The course requires the student to make several standard preparations such as tooth powder, mouth washes, aromatic spirits of ammonia, etc., in the chemistry laboratory under direction of the Department of Chemistry and Pharmacology.

ANATOMY

PROFESSOR MCCURDY

Instruction in this department consists of lectures and demonstrations of the anatomy of the entire body, special lectures being given upon regions of the face, head and neck.

Surgical and Topographical Anatomy of face receives special attention, as the study of the various parts is considered.

PRACTICAL ANATOMY

PROFESSOR MCCURDY, DR. WRIGHT

Students are required to make a complete dissection during the Sophomore year.

To facilitate the study of Anatomy, boxes containing a half skeleton are given the student upon a deposit of $5.00, refundable upon return of box and the contents as it was received.

GENERAL AND ORAL SURGERY

PROFESSOR MCCURDY, PROFESSOR BIDDLE

The Junior course covers: general principles, including repair; acute infection and the results; surgical fevers; erysipelas; shock; general diagnosis; diseases of the vascular system; asepsis and antisepsis; anesthetics, and principles in operations, wounds and emergencies.

The Senior course includes diseases of the structures of the oral cavity, the antrum and other cavities, diseases and injuries of the gums,

alveolar process and tongue; diseases, injuries and neuroses of the face; congenital defects of the face and mouth; diseases of bone; tuberculosis; venereal diseases; diseases of the salivary glands; neuralgia; tumors; ankylosis, fractures, dislocations, general conditions producing oral manifestations and oral diseases producing general symptoms; plastic surgery, and prosthesis.

Operation in hospitals and clinical cases at the School will give the student an opportunity to make a practical study of cases.

A course in Physical Diagnosis is given in order that graduates of this School may be able to make an intelligent examination of the heart and lungs preparatory to the administration of an anesthetic.

PHYSICS

Assistant Professor Metz

This course will embrace the study of the properties of matter, physical measurements, metric system of measures, volume, mass and density, specific gravity, force and equilibrium, hydraulics, hydrostatics and pneumatics, motion, velocity and acceleration, composition and resolution of forces, Newton's laws, gravitation, work, energy and power, machines, temperature and thermometry, specific heat, effect of heat, sound, radiant energy, electrostatics, electrokinetics, sources, properties and uses of electric currents, dental applications of electricity.

It will include an examination into the physical properties of filling materials, tooth structure, plaster, rubber, steel, porcelain, hand pressure, mallet force, stress of mastication, light and color.

TECHNICAL DRAWING

Assistant Professor Brand

Practice in the use of drawing instruments. Elementary projections, lettering, orthographic, isometric and oblique projections. Reading and making of working plans. Sketching.

It is the aim of this course to teach the student close observation, precision, neatness, delicacy of touch, visualization and the ability to portray what he sees as an aid to study.

CHEMISTRY

Professor Judd, Assistant Professor Dunn, Dr. Fawcett

The department of Chemistry includes general and inorganic chemistry, metallurgy, organic chemistry and chemistry of anesthetics. The teaching is by lectures, recitation and laboratory practice, continuous throughout the first two years.

GENERAL AND INORGANIC CHEMISTRY

Lectures, recitations and laboratory practice. The course is begun with a brief review of the history of the subject, the scope of the science, and its relation to the other physical sciences and to dentistry, with a consideration of the notation and nomenclature employed in modern chemistry. When this preliminary work has been accomplished, the important

elementary substances are taken up in order of their natural classification, and separately lectured upon. Contemporaneous with the lectures, every member of the class receives laboratory practice, which includes the preparation (when possible) of each element in the free state, the study of its leading properties, and of its characteristic reactions. When the elements have all received consideration in this matter the class is given a brief drill in qualitative analysis, with practice in the identification of inorganic chemical substances in simple mixtures.

METALLURGY

Lectures, recitations and laboratory practice. The work is carried on with lectures and recitations from lessons assigned in the text-book. After the general principles of the subject have been reviewed, the manufacture and properties of amalgams and alloys receive consideration, followed by a study of the individual metals and their uses and application in dentistry, with laboratory practice in identification of metals, and in the manufacture and assay of alloys and amalgams.

ORGANIC CHEMISTRY AND CHEMISTRY OF ANESTHETICS

Lectures, recitations and laboratory practice. The lectures and recitations will be devoted to a consideration of the general principles of the chemistry of the Carbon Compounds, their classification and uses. In the laboratory the student is expected to prepare a series of the more important members, and to study their principal reactions and means of identification.

MATERIA MEDICA AND THERAPEUTICS

Professor Jones

During the early portion of the Junior year special attention will be given to the definition of words and phrases, their derivation and significance, with reference to their use in Materia Medica, Therapeutics and Pharmacy. After this, the most important drugs in general use will be taken up and considered separately, with reference to their physiological effects, doses, methods of administration, their toxic effects, antidotes, etc. The same method of teaching is continued through the course.

GENERAL PATHOLOGY

Professor Jones

A thorough knowledge of General Pathology is necessary before the more advanced special branches can be properly understood. Hence the object of teaching in this department is to unfold to the student the fundamental principles of the subject, and bring them within his comprehension; also to increase his interest in the study of the subject, to obtain a knowledge of the inception and course of pathological processes, their changes and effects upon the organism as manifested in abnormal conditions.

ORTHODONTIA

Assistant Professor Metz

Normal exclusion, the etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, modern methods and appliances for the correction of malposed teeth, and correction as related to the harmony of the facial lines, facial art, are all included in the instruction in this branch.

The technical course consists of free-hand soldering, soldering and adjusting combination appliances, and making of accurate models. The work is illustrated by stereopticon, charts and models, and demonstrated by clinical cases.

DENTAL CERAMICS

Professor Fickes

Instruction in this course will consist of one lecture each week, supplemented by demonstration, in detail, of practical operative and prosthetic porcelain work.

The more important subjects are: The history and development of the porcelain art; the composition, characteristics and manipulation of porcelain compounds; the source of heat employed; the use and care of furnaces, and descriptions and demonstrations of all the more important methods of inlay, crown and bridge and continuous gum work.

PHYSIOLOGY AND EMBRYOLOGY

Professor Zugsmith, Dr. Pearce

The teaching in this branch will consist of lectures, quizzes and practical demonstration.

In the lectures it will be the aim of the teaching to keep continually in mind the fact that the normal condition must be understood before the abnormal can be known. The student will be taught, as far as possible, to form his conclusions from facts of personal observation, and from those given to him by the demonstrations of the professor.

Each structure of the body will be shown, its function and its relation to every other structure. Special attention will be given to the subjects of blood, circulation, digestion and the nervous system, where these are so closely identified with important laws of interest to the dental student.

The lectures will be supplemented by quizzes, and each student will be required to pass an examination in all subjects which have been taught.

Muscle and nerve physiology, production of the voice, central nervous system, brain, spinal cord, reproductive organs, embryology and development are considered.

BIOLOGY

Professor F. C. Friesell, Assistant Professor Brand

This course includes such consideration of Zoology and Botany as will prepare the student for the subsequent courses in Anatomy, Histology, Physiology and Bacteriology.

It is the plan to establish in the student's mind the principles underlying all structures and functions of living things.

The animal kingdom is studied in a progressive manner beginning with the single-celled animals and proceeding through the various phyla to the mammalia. The plant kingdom is studied sufficiently to learn the relation between animals and plants and their interdependence for the elements of nutrition, and also for the early recognition of the position and classification of Bacteria.

Laboratory exercises are coordinated with the lectures so far as practicable in securing material.

Special stress is laid on drawing (during the laboratory courses) as a recognized necessary factor to impress on the memory the details of structure as well as the differential characteristics of the various organisms studied.

Test questions are given each period requiring textbook references for descriptive notes to accompany the drawings.

HISTOLOGY

Professor F. C. Friesell, Dr. Van Kirk

The course in Histology consists of a systematic presentation of the subject of the minute anatomy of the various parts of the body, partly by lectures, and more especially by the practical study of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory.

The work in microscopy is preparatory to the subject of Histology, and consists of a course of lectures upon the construction and manipulation of the compound microscope, with practice by the student in preparation of temporary and permanent mounts, including the technique of embedding, sectioning and staining both of hard and soft tissues.

The laboratory is supplied with microscopes and all the apparatus necessary to render the student familiar with the subject of microscopical technique, as well as the normal histology of the various tissues and organs of the body.

DENTAL HISTOLOGY

Professor F. C. Friesell, Dr. Van Kirk

Lectures on Dental Histology embrace the origin, development, tissues and the functions of the teeth, and the development of the superior and inferior maxillary bones, the dental tissues—enamel, dentine, cementum, peridental membrane, periosteum, the tooth pulp, the other soft tissues of the mouth, and a short course in embryology of the dental structures.

Laboratory work consists of examining and making drawings of prepared slides showing longitudinal and cross sections of each type of tooth. This enables each student to have a mental picture of the microscopic appearance of tooth structure.

BACTERIOLOGY

Professor F. C. Friesell, Assistant Professor Brand

(a). The student is taught the principles of General Bacteriology; a knowledge of the preparation of the media for cultivating bacteria; the morphological, biological and physiological attributes.

(b). In oral bacteriology, the subjects of morphology and biology of the micro-organisms of the teeth are carefully considered, together with their relation to caries of the teeth and oral diseases.

PATHOLOGICAL AND BACTERIOLOGICAL LABORATORY

Professor F. C. Friesell, Assistant Professor Brand

Laboratory work in pathology and bacteriology is carried on. Slides of pathological conditions, including tumors, diseases of the liver, kidneys, lungs, etc., are loaned each student for use in the laboratory.

The bacteriological laboratory is equipped with high-power microscopes containing oil-immersion lens, Abbe condenser and iris-diaphragm. It also contains incubator, and moist sterilizers, and every variety of apparatus known to modern bacteriology.

Students are taught rapid staining and mounting of sections, principles of sterilization, method of isolating bacteria, technique of making plates, study of colonies, staining, mounting and examination of the more common varieties of bacteria, with special reference to bacteria found in the mouth. Widal test for typhoid fever and tests for efficiency of various germicides and antiseptics will be practically demonstrated.

LANTERN SLIDES

The laboratory course in Histology (general and dental) and Pathology is supplemented by the use of the lantern, to project reproductions of many of the tissues and pathological conditions which cannot, for obvious reasons, be supplied in loan slides.

CLINICAL DENTAL PATHOLOGY

Professor Biddle

This course embraces the practical application of various approved methods in diagnosis, and treatment of diseases of the dental pulp and associate structures. The influence of pulpless teeth on general health of patient is given special consideration.

Private operative clinics are given throughout the year, covering the practical cases of pulp treatment, root canal filling, and treatment of diseased conditions associated with pulpless teeth.

A separate private clinic also is conducted in this department for the treatment of mouth conditions associated with venereal diseases. Abundant clinical material is furnished from hospital dispensary.

RADIOLOGY

Professor Biddle

This course includes X-Ray and Electricity as applied to Dentistry, also practical demonstrations of operation of X-Ray machines and the technic of taking radiographs. Students are taught the value of X-Ray and are given instructions in preparing and developing plates. This course covers instruction in electro-physics, electrophysiology and electro-therapeutics, and the control of electricity as a motor power.

JURISPRUDENCE

Dr. McParland

The course of lectures in this branch will cover the subjects of dental witnesses, rights and liabilities of dental practitioners, including the law of crimes, negligence and contracts, as applied to the practice of the profession, together with a discussion of the history of dental legislation in general, and of the statutes in force in Pennsylvania regulating the practice of dentistry.

ORAL HYGIENE

Professor Fickes

Oral Hygiene embraces a knowledge of the factors and conditions which produce or assist in producing disease, local or general, which arise from perverted function or from unsanitary conditions in the oral cavity, as well as the best means of preventing such diseases.

This course will consist of lectures on all of the most important subjects relating to the prevention of diseases of the oral cavity, and of conditions in the oral cavity which are unfavorable to the general health.

HISTORY

Assistant Professor Hipple

The course in Dental History will cover the subject from the earliest times to the present, and will include biographies of noted and successful dentists and the factors which led to their success, as well as the record of the development of the art and science of dentistry.

RHETORIC

Assistant Professor Hipple

The object of this course is to develop the student's analytical and constructive powers in both written and oral English; to teach him to overcome the physical difficulties of public address; to eliminate self-consciousness and to acquire self-confidence; to give him practice in debate and in parliamentary procedure; to develop the reading habit and to cultivate a knowledge of dental literature by using it as a basis for theme writing and theses.

This course is given during the third and fourth years.

ECONOMICS

Dr. Coulter

The course in Dental Economics will embrace the business requirements for success in practice, including selection of a location, arrangement of an office, relations with patients, personal appearance and conduct, general business methods, fees, bookkeeping and records, self-development, etc.

ETHICS

Dr. French

Ethics primarily means conduct considered with reference to its good or bad results to self or to others. The course in Ethics considers, therefore, the dealing of the dentist with patients and the profession; consultations; the necessity of moral, mental and physical cleanliness and honesty in his dealings with his fellowman; unprofessional conduct, etc.

TEXT-BOOKS

(Subject to Change)

Freshman Year—Physics, Milliken-Gale-Bischof; Dental Anatomy, Black; Biology, Hegner; Dental Prosthesis, Wilson; Chemistry, Smith; Dictionary, Dorland, Stedman or Gould; Histology, Hill; Metallurgy, Hodgen.

Sophomore Year—Prosthesis, Wilson; Anatomy, Gray; Physiology, Pearce; Histology, Hill; Chemistry, Smith; Operative Dentistry, Black; Bacteriology, Pitfield; Dental Histology, Noyes.

Junior Year—Prosthesis, Wilson; Materia Medica, Bastedo; Rhetoric, ————; Oral Hygiene, ————; Operative Dentistry, Black; Oral Surgery, Blair; Dental Medicine, Prinz, Buckley; Pathology, McConnell; Dental Pathology, Burchard.

Senior Year—Dental Pathology, Burchard; Orthodontia, ————; Special Dental Pathology, Black; Prosthesis, Wilson; Anesthesia, ———; Rhetoric, ———; Operative Dentistry, Black; Oral Surgery, McCurdy; Radiology, ————.

FEES

Matriculation (required of all new students), $5.00; Annual Tuition Fee, $262.50; Diploma, $10.00.

A deposit of $5.00 will be required of each student at the opening of the term in September. Against this amount will be charged property damages, key losses and such contributions as may be voted by class action during the year. Any surplus existing at the end of the school year will be returned to the student.

The tuition may be paid in two installments: $137.50 at the opening of the term in September, and no student is formally entered until such is paid; the remainder on or before January 5th. The amount charged for tuition includes an Athletic Fee and Student's Activities Fee. This entitles students to free admission to the athletic events and the other activities under the control of the General Athletic Committee of the University.

No student is permitted to enter upon final examinations at the close of the term who has not paid his fees for the entire year.

According to the regulations of the School of Dentistry, no fees are returnable. Should the student discontinue his studies, any fee or fees paid will hold good for a subsequent course, but they are not transferable.

REQUIREMENTS FOR ADVANCEMENT IN COURSES

Students are graded on the work of the year as judged by the performance of their duties, including written and oral examination records. Minimum passing grade in examinations, 75 per cent in each subject.

Students who have done satisfactory work for any year will be advanced to the succeeding class.

A student whose work has not been satisfactory, will, according to the judgment of the Faculty:

1. Continue with his class, for a limited time, conditioned in certain subjects.
2. Repeat the year in all branches,
3. Be enrolled as a special student, or
4. Be dropped from the course.

(Rule 4 may be applied at any time during the year.)

See also department rules for removal of conditioned work.

EXAMINATIONS

Examinations are held in the various branches taught, at stated periods during the term and at the close of the year.

Students of the Freshman, Sophomore and Junior classes below 75 in any study will be given the privilege of a second examination before the opening of the next winter term. A student may, however, be admitted to the class in advance if he be conditioned upon not more than two branches; but these conditions must be removed during the first semester. No students will be permitted to enter the second semester with any conditions.

No students will be advanced with conditions in technic work.

A failure in Operative or Prosthetic Dentistry will constitute a failure in the year's work.

GRADUATION

Candidates for the degree of Doctor of Dental Surgery must have attended four full courses of lectures in a recognized dental college, or its equivalent (as required by the rules of the National Association of Dental Faculties), the last of which must have been in this institution. They must be twenty-one years of age and of good moral character, and must bring before the Professors of Operative and Prosthetic Dentistry such evidence of proficiency in practical dentistry as may be required.

REGULAR TERM

The regular term begins September 25, 1922, and continues for eight months, or until June 1, 1923.

Students must matriculate before October 5 to obtain credit for the term.

Students who fail to enter their names on the matriculation book or make application for admission before October 5 may enter upon the payment of $137.50. No time credit can be given upon such attendance.

FALL AND SPRING TERMS

The Infirmary is open from September 1st to July 1st of the following year. During this time patients in abundance are furnished the students for practical work. During the Spring and Fall terms, the Senior and Junior classes have an opportunity to complete their requirements in practical work.

NOTES

Seats and laboratory privileges are assigned in order of matriculation.

The Faculty will be pleased to advise parents, when so desired, of the progress and general conduct of students.

Each student is required to supply himself with the specified outfit for laboratory work in histology, bacteriology, and anatomy.

Grades and cards are withheld from students who have not complied with the rules of the School.

For further information address the Dean of the School of Dentistry.

Re-examinations for conditioned students will be held as follows:

FRESHMAN STUDIES

Prosthesis	2:00 P.M.	Monday,	Sept. 25
Dental Anatomy	9:00 A.M.	Tuesday,	Sept. 26
Physics	2:00 P.M.	Tuesday,	Sept. 26
Chemistry and Metallurgy	9:00 A.M.	Wednesday,	Sept. 27
Histology	2:00 P.M.	Wednesday,	Sept. 27

SOPHOMORE STUDIES

Physiology	10:00 A.M.	Monday,	Sept. 25
Bacteriology	9:00 A.M.	Tuesday,	Sept. 26
Operative Dentistry	9:00 A.M.	Wednesday,	Sept. 27
Chemistry	2:00 P.M.	Wednesday,	Sept. 27
Histology	9:00 A.M.	Thursday,	Sept. 28
Prosthesis	2:00 P.M.	Thursday,	Sept. 28
Anatomy	9:00 A.M.	Friday,	Sept. 29

JUNIOR STUDIES

Materia Medica	2:00 P.M.	Monday,	Sept. 25
Dental Medicine	9:00 A.M.	Tuesday,	Sept. 26
Crown and Bridgework	2:00 P.M.	Tuesday,	Sept. 26
Operative Dentistry	9:00 A.M.	Wednesday,	Sept. 27
Orthodontia	2:00 P.M.	Wednesday,	Sept. 27

FRESHMAN CLASS.

Adams, Joseph Earle ..... Utahville
Allison, Everett Grant ..... Steubenville, Ohio
Anderson, Roy Thomas ..... Pittsburgh
Anthony, William Albert ..... Du Bois
Ashbaugh, William ..... Washington
Bakanowski, Michael A. ..... Pittsburgh
Baker, Henry Armstrong ..... Erie
Bane, Albert Gallatin ..... Washington
Bane, Martin Francis ..... Munhall
Barmen, Earl ..... Pittsburgh
Barnes, Willis Flack ..... Bellevue
Barnhart, James Bushfield ..... Greensburg
Bee, Russell Edward ..... Pennsboro, W. Va.
Bennett, Frank Adams ..... Mt. Union
Berman, Louis Samuel ..... Pittsburgh
Bernhard, Joel Richard ..... Nunda, N. Y.
Best, Daniel Harrison ..... Pittsburgh
Betts, George E. ..... Erie
Blackburn, John S. ..... West Newton
Boltey, John Joseph ..... Library
Booher, Charles Morris ..... New Castle
Boyer, Fred Robert ..... Evans City
Boyles, Paul Revere ..... Wilkinsburg
Bradley, Howard Watson ..... Charleroi
Brand, Charles Frederick ..... Pittsburgh
Brasfield, Frank ..... Pittsburgh
Bratt, Charles Bertyn, Jr. ..... Pittsburgh
Breen, James Norbert ..... Beaver Falls
Bridges, Henry Allen ..... Pittsburgh
Bruno, Charles E. ..... Oakmont
Buck, Ambros Frank ..... Edgewood
Buettner, Charles Aloysius ..... Johnstown
Buetzow, Edward William ..... Pittsburgh
Campbell, Julius Hann ..... Elizabeth
Carman, Chalmer Buchanan ..... Sturgeon
Carrier, David Edwin ..... Summerville
Channing, Gilbert Clarence ..... California
Clark, James Harry ..... Charleroi
Clawson, Norman John ..... Johnstown
Coburn, Harold Alger ..... Sciotoville, Ohio
Cohen, Harry Charles ..... Blairsville
Cook, Russell Brunt ..... Pittsburgh
Corbett, Donald Logue ..... Parkers Landing
Cottom, Harold Vernon ..... Dawson
Coulter, Frank Collins, Jr. ..... Crafton
Cox, Earl John ..... Pittsburgh
Cunningham, George Oliver ..... Leetonia, Ohio
David, A. Cecil ..... Martins Ferry, Ohio
Demmy, Edward Joseph ..... Pittsburgh
Dennis, Robert Stewart ..... Burgettstown
Diehl, Abram Stanley ..... Cresson
Dietrich, Albert Edward, Jr. ..... Pittsburgh
Dixon, Joseph Kay ..... Kittanning
Dodds, Joseph Burns ..... Kittanning
Dodds, Neal Dow ..... Wilkinsburg
Dougherty, Joseph William ..... New Bethlehem
Dunford, Walter L. ..... Johnstown
Dunn, David Compton ..... Meadville
Dykins, William Raymond ..... Nanticoke
Eaton, George Russell ..... Chestnut Ridge
Eckert, Lawrence Randolph ..... Crafton
Ellsworth, Robert Henry ..... Meadville
Erwin, John Funk ..... Greensburg
Evans, John Daniel ..... McKeesport
Evans, John Walter ..... Duquesne
Everett, Edward ..... New Castle
Fischer, George Charles ..... Pittsburgh
Flanagan, Harold W. ..... Buckhannon, W. Va.
Fleck, Edward Huderpohl ..... Rennerdale
Fleming, Eugene Grant ..... Shelocta
Frazier, William Clinton ..... Pittsburgh
Freedman, Myer ..... Steubenville, Ohio
Freedman, Sheffield Howard ..... New Kensington
Friedrich, Christ August ..... Pittsburgh
Fulton, Andrew McNall ..... Wilkinsburg
Fundenberg, Charles R., Jr. ..... Bellevue
Gardner, Burdette C. ..... Carbondale

Garvey, Thomas Billroth ..... Lancaster
Gaskin, Floyd Harry ..... Derry
Gault, Archie Leslie ..... Washington
Gaus, Joseph William ..... Avalon
Gerst, William M. ..... Pittsburgh
Gilkey, Henry ..... Braddock
Gillinger, Clarence Wayne ..... Clarion
Gillingham, George Dale ..... Reedsville, W. Va.
Goehring, Rufus C. ..... West Newton
Grabowski, Stanley C. ..... Nanticoke
Granahan, Thomas F. ..... Pittston
Gray, Harold ..... Woodlawn
Gray, James Wilbur ..... Carnwath
Green, Zane A. W. ..... Altoona
Griffin, Joe R. ..... Clarksburg, W. Va.
Griffith, Hugh L. ..... Leetonia, Ohio
Groman, Robert Rudolph ..... Martins Ferry, Ohio
Grove, William Morgan ..... Johnstown
Grubbs, Arthur Abbey ..... Pittsburgh
Guiser, Raymond ..... McKeesport
Gwosden, Milo ..... Woodlawn
Hall, Donald Llewellyn ..... Vanport
Hamilton, Leland White ..... New Castle
Harris, Abram Julius ..... Pittsburgh
Harrison, J. Charles ..... Altoona
Hartman, Arthur Henry ..... McKeesport
Hartman, John Conrad ..... North Braddock
Hartman, Owen Rhohen, Jr. ..... Butler
Harvey, Charles Ingram ..... Beaver Falls
Hayden, Thaddeus ..... Pittsburgh
Hickman, John Walter ..... Houston
Hillery, Edward Leo ..... Boonton, N. J.
Hochberg, Miss Tauba ..... Greensburg
Hockenberry, Laurie Arnold ..... Keister
Hoge, George Ely ..... Waynesburg
Holzmaster, Walter A. ..... Carbondale
Hoover, Melvin Orland ..... Connellsville
Hormell, Clayton Work ..... Dunbar
Horrell, Matthew Campbell ..... Jeannette
Hudacek, Edward Joseph ..... Braddock
Ignelzi, Michael, Jr. ..... Pittsburgh
Irwin, John Samuel ..... East Liverpool, Ohio
Ittel, William Henry ..... Pittsburgh
Jaquette, Marcus Metzger ..... Uniontown
Johnson, Burrell Keys ..... Johnstown
Kaiser, John Charles, Jr. ..... Pittsburgh
Kalins, Ira ..... Pittsburgh
Kantor, Louis ..... Carnegie
Kasserman, Carl Edward ..... Hannibol, Ohio
Kelly, Shields MacDonald ..... Sutersville
Kidd, Percy Thomas ..... Wilkinsburg
King, Thomas William ..... Mercer
King, William Wade ..... Oakmont
Kirch, George, Jr. ..... Pittsburgh
Klein, Alexander ..... Braddock
Klein, Daniel Sidney ..... Oakmont
Koehler, Robert ..... Johnstown
Kondracki, Michael Andrew ..... Braddock
Krall, Edmond Sylvester ..... Pittsburgh
Laneve, Anthony Robert ..... Newell, W. Va.
Leahey, Francis John ..... Lilly
Lebowitz, David Warren ..... Monessen
Lechtner, Robert Jacob ..... Erie
Lefranc, Anna Marie ..... Arecibo, Porto Rico
Lemon, Monro, Jr. ..... Carnegie
Lerner, Joseph ..... Pittsburgh
Leslie, Merle Russell ..... Pittsburgh
Levant, Howard ..... Pittsburgh
Lewis, Hillora Ronald ..... Buckhannon, W. Va.
Lia, Frank Charles ..... Pittsburgh
Logan, Robert Bardin ..... Wilkinsburgh
Long, Elwin Jesse ..... Erie
Lytle, Harry Henry ..... Aspinwall
Lytle, John Willis ..... Pittsburgh
McFadden, Charles Elliott ..... Altoona
McGarvey, Henry A., Jr. ..... Renovo
McKee, William G. Smith ..... East Liverpool, Ohio
McKelvey, Roy Franklin ..... Derry

Mackey, James Forgundus ..... Pittsburgh
Mandelblatt, Joseph William ..... Wilmerding
Mannion, Maurice Aloysius ..... Carbondale
Marcus, Harry Mentser ..... Aliquippa
Martin, George Gibson ..... Mt. Oliver
Means, Alton D. ..... Reynoldsville
Miller, Carl Kenneth ..... Kittanning
Miller, Samuel Butram ..... Irwin
Moore, Thomas Laugherty ..... Oakmont
Moriarity, Elliott Paul ..... New Haven, Conn.
Morris, William Richardson ..... Washington
Murphey, William ..... Uniontown
Nevling, Josiah Oden ..... Berwinsdale
Noll, Richard Peale ..... Donora
Noon, Thola ..... Everson
Osborne, Homer Andrew ..... Franklin
Paff, Harry William ..... Beaver Falls
Parella, Anthony F. ..... Braddock
Paul, Eugene Wilson ..... Vandergrift
Pennington, William Allen ..... Braddock
Perifano, Anthony Mark ..... Butler
Perlow, Benjamin ..... Brooklyn, N. Y.
Preece, Herbert J. ..... Nanticoke
Prinzler, Walter ..... Greensburg
Redmond, Arthur Gordon ..... Cadiz, Ohio
Reichenbach, Charles John ..... Dormont
Riley, Byron Brooke ..... Wilkinsburg
Roberts, Richard John ..... Erie
Robinson, Bertram Udell ..... Pittsburgh
Robinson, Henry Jacob ..... Pittsburgh
Rode, Norman Robert ..... Pittsburgh
Rogers, Walter Henry ..... Erie
Rosenthal, Victor P. ..... Monessen
Radin, Philip Gordon ..... Pittsburgh
Russell, Bryan Frampton ..... Brackenridge
Russell, William Shiveley ..... Edgewood
Ryan, Clifford James ..... Pittsburgh
Salaczynoki, William M. ..... Nanticoke
Saylor, John Colvin ..... Johnstown
Schaner, Emil Arnold ..... Glassport
Schor, Howard Philip ..... Etna
Shapiro, Miss Anna I. ..... Pittsburgh
Sheehan, Daniel Eugene ..... Juniata
Shilling, Julius Charles ..... Erie
Sissman, Isaac ..... Pittsburgh
Smith, Frederick Elmer ..... Braddock
Smith, Millard Kenneth ..... Beaver Falls
Smith, Stanley ..... McKeesport
Snaith, Ralph ..... McKeesport
Solomon, William ..... Pittsburgh
Springer, William Fulton ..... Uniontown
Stephany, Cornelius Vladimir ..... Erie
Stilley, John Charles ..... Willock
Stillings, Aura Neff ..... Sharon
Stillwagon, Bernard ..... Connellsville
Stitt, David Dale ..... Apollo
Straessley, Jerome P. ..... Kersey
Sullivan, John C. ..... West Homestead
Summerville, Donald V. ..... Monroe
Szatkowski, Alexander Anthony ..... West Homestead
Tagress, Jerome Mortimes ..... Pittsburgh
Tarno, Merle Lee ..... Pittsburgh
Taylor, Charles Earl ..... Emlenton
Teese, Harry R. ..... Pittsburgh
Thomas, Forrest Gallagher ..... Greensburg
Truby, Lester Myron ..... New Castle
Tunstall, James Fee ..... Aspinwall
Turner, John Chadsey ..... Bellevue
Van Camp, Glenn Clark ..... Washington
Varnes, William Edward ..... Gallitzin
Venable, Walter Randolph ..... Charleston, W. Va.
Wachs, Isadore Howard ..... Pittsburgh
Wadkins, Joseph Edward ..... Aurora, Ill.
Walk, John Oscar ..... Troy, Ind.
Walters, Loyal Aldo ..... Mars
Warakomski, Clem Henry ..... Nanticoke

Warnick, Julian Roswell ..... Johnsonburg
Weed, Paul Sylvester ..... Union City
Wendell, Charles Alfred ..... Johnstown
Wertz, Harry William ..... Aspinwall
Whitehill, Alvin Reed ..... Etna
Wilkins, Henry Dowler ..... California
Williams, David Thomas ..... Woodlawn
Williams, Richard W. ..... Wilkes-Barre
Willson, Kenneth Morrow ..... Freedom
Wilson, Edwin Glenn ..... Canonsburg
Yealy, James Hiram ..... Derry

SOPHOMORE CLASS.

Adams, Paul ..... Monongahela
Anderson, Samuel Lackey ..... Wilkinsburg
Barham, Frederick Baxter ..... Newport News, Va.
Baserman, John A. ..... Johnstown
Bayne, Paul Benjamin ..... Kittanning
Berger, Benjamin Edward ..... McKeesport
Berger, Max ..... Homestead
Bowser, Theodore Franklin ..... New Bethlehem
Braucher, Larue ..... Altoona
Buchanan, Thomas Harnish, Jr. ..... Altoona
Burghart, Chester Albert Martin ..... Erie
Burns, William Regis ..... Johnstown
Busse, Edward William ..... Beaver Falls
Calupi, James Thomas ..... Monessen
Campbell, John Patrick ..... Mahanoy City
Carlson, Neal Francis ..... Renovo
Carney, John Raphael ..... Johnstown
Carr, Hugh Patrick ..... Ambridge
Case, Walter Edward ..... Pittsburgh
Chattaway, Thomas Daniel ..... Monongahela
Cohen, Frank ..... Pittsburgh
Colbert, Charles Raymond ..... Johnstown
Cole, William Lucius ..... Pittsburgh
Colonna, Louis Nicholas ..... Woodlawn
Conti, Michael Charles ..... Renovo
Cornelius, Earl James ..... Johnstown
Cornely, Charles Franklin ..... Madera
Cruikshank, George Odell ..... Cabot
Cummings, William Harold ..... Wellsburg, W. Va.
Daly, Edward C. ..... Pittsburgh
Davis, Alvin Russell ..... Sharon
Davis, Robert ..... Greensburg
DeArment, Daniel C. ..... Greenville
DeNiro, Romeo ..... Youngstown, O.
Devlin, Charles Edward ..... Pittsburgh
Dow, Robert St. Clair ..... Grove City
Driscoll, William Francis ..... Sharon
Dubbs, Nathaniel William ..... Pittsburgh
Dudas, Joseph Martin ..... Monessen
Durant, Richard Rennie ..... Braddock
Eardley, Norman Burroughs ..... Pittsburgh
Elliott, John Russell ..... Warren
Ellsworth, Charles Boyd ..... Johnstown
Fady, John Charles ..... McKeesport
Fahey, John Silvey ..... Pittsburgh
Farquhar, Lewis Euclid ..... Monessen
Fee, Oakie Arthur ..... Uniontown
Feldmon, Maurice Harry ..... McKeesport
Ficks, Harry G. ..... Uniontown
Fields, David Maurice ..... Beaver Falls
Finegan, John Francis ..... Carbondale
Fitch, John Oliver ..... Sharon
Fletcher, Leonard Sylvester ..... Fryburg
Fricke, Charles Russell ..... New Kensington
Gahles, Eugene Mathias ..... Beaver Falls
Galin, Abe Robert ..... Atlantic City, N. J.
Geer, Frank Densmore, Jr. ..... Johnstown
Gibb, Robert Smith ..... Tidioute
Gilleland, Raymond Corbin ..... Munhall
Gilliland, Howard Stewart ..... Chester, W. Va.
Glickman, Miss Minnie ..... Pittsburgh
Gobrecht, Robert Nevin ..... Altoona
Goldstein, H. Jonas ..... Pittsburgh

Haines, Harold Benjamin ..... Altoona
Hardy, Larney Edward ..... Pittsburgh
Hargrave, Joseph Kirk, Jr. ..... Wilkinsburg
Harmany, William Charles ..... Pittsburgh
Hart, Hobart H. ..... Swissvale
Hartman, Walter Herwald ..... Shippingport
Harvey, Wilbur Robinson ..... Altoona
Herrod, Robert Chester ..... Pittsburgh
Himelblau, Leonard A. ..... Pittsburgh
Hoffman, Roy M. ..... Jeannette
Hoop, Elmer Paul ..... New Salem
Hoover, Burton Walker ..... Reynoldsville
Houck, Francis Xapher ..... Altoona
Hunter, William Elder ..... Jeannette
Hutchison, James Alvin ..... Monessen
Jameson, Edward Thomas ..... Karns City
Jamison, George D. ..... Clarion
Johnson, Herbert Tellman ..... Munhall
Johnson, John Millard ..... Saegertown
Kelley, Harry Chester ..... Wilmerding
Kern, Lester Thompson ..... Pittsburgh
Kesel, Paul Lundy ..... Pittsburgh
Knoll, Alois ..... Nanticoke
Lancelot, Anthony Francis ..... New Kensington
Larva, Francis J., Jr. ..... Pittsburgh
Latimer, James Kenneth ..... Youngstown, Ohio
Lear, Lester B. ..... Monessen
Levinson, Hyman ..... Pittsburgh
Liddle, David William ..... Sharon
Ling, Thomas Whyte ..... Johnstown
McCabe, Arthur Loy ..... Coraopolis
McClelland, Edward Lee ..... Pittsburgh
McComb, George Bennett ..... Leetsdale
McCune, John M. ..... Wilkinsburg
McDonnell, Francis Regis ..... Pittsburgh
McNelis, Frank J. ..... Altoona
Mack, Alphonsus Joseph ..... Johnstown
Martin, John Edward ..... Altoona
Mawn, Thomas Robert ..... Johnsonburg
Meharey, James Seeds ..... Wilkinsburg
Miller, Ben Bernard ..... Leechburg
Moody, William Hawthorne ..... Pittsburgh
Moran, Leo Francis ..... Wilkes-Barre
Mumaw, John Mortin ..... Pittsburgh
Murstein, Myron ..... Sharon
Muth, Raymond A. ..... Pittsburgh
Nabors, Altha Blair ..... Uniontown
Naughton, Clyde Milton ..... Sharpsburg
Nevin, Charles William ..... East Pittsburgh
Niggel, Clement D. ..... Pittsburgh
Ockner, Levi ..... New Kensington
Olitsky, Barney Elwood ..... Trenton
O'Neal, Ira Donald ..... Uniontown
Osborne, Leon Dwight ..... Youngstown, Ohio
Padolf, Ephraim Lee ..... Erie
Patrick, Luke Docker ..... St. Petersburg, Fla.
Pearlstein, Benjamin ..... Pittsburgh
Polanski, Joseph Henry ..... Braddock
Pollak, John Joseph, Jr. ..... Wilkinsburg
Porterfield, Ernest Rankin ..... St. Clairsville, Ohio
Potts, Daniel Reamer, Jr. ..... Greensburg
Price, Alvin Wilbur ..... Chicora
Primas, Hugh Raymond ..... Lock No. 4
Proskey, Theodore Howard ..... Duquesne
Rafael, Samuel ..... Pittsburgh
Reed, Jay Leroy ..... New Castle
Reeves, Leonard D. ..... Latrobe
Robison, Gerald Austin ..... Milesburg
Romesburg, Samuel Harold ..... Uniontown
Rutter, Paul Trewaskis ..... Perry, Ohio
Sample, Rollo J. ..... Erie
Saron, Herman Albert ..... Munhall
Seaton, Charles Swan ..... New Salem
Seidelson, Harry ..... Pittsburgh
Sgarlata, Joseph M. ..... McKeesport
Shafer, Kenneth Franklin ..... Altoona

Shogren, Paul William ..... Swissvale
Simpson, Merle Lawrence ..... Noblestown
Singleton, Albert Horace, Jr. ..... Clarksburg, W. Va.
Smail, Thomas Mellon ..... Rural Valley
Smith, George Edward ..... Schenectady, N. Y.
Snyder, Thoburn Rudolph ..... Vandergrift
Stern, Louis ..... Winnipeg, Manitoba, Canada
Stewart, Elijah C. ..... Alexandria
Stewart, George M. ..... Lincoln Place
Stoner, Charles Emerson ..... Verona
Swan, James Steele ..... Charleroi
Swivel, Richard Earl ..... Huntingdon
Thamm, John Kenneth ..... Bradford
Theodoropolous, Spiros ..... Braddock
Thomas, Percy William ..... Arnold
Tischke, Frederick William ..... Everson
Toye, Earle Colborne ..... Chicora
Treiber, Richard F. ..... Buchhannon, W. Va.
Vogel, Vincent C. ..... Wilkinsburg
Voorhees, Kenneth Ewing ..... New Castle
Walker, Charles R. ..... Bruin
Walsh, Michael Francis ..... Pittsburgh
Waters, Thomas Michael ..... Pittsburgh
Watkins, Charles Arthur ..... New Castle
Weigel, Knealand Roland ..... Lock No. 3
Weidman, Miss Marion L. ..... Clarence Center, N. J.
Weinberger, Alexander Harvey ..... Pittsburgh
Weisberg, Sam ..... Pittsburgh
West, Charles Cooke ..... Easton
Weyandt, J. Arthur ..... Pittsburgh
Whitworth, John Ford, Jr. ..... Kittanning
Williams, Broidie ..... Apx, N. C.
Williams, Charles Andrew ..... Wellsburg, W. Va.
Wilson, T. Lee ..... Kittanning
Wingerd, Ray Deamer ..... Chambersburg
Woods, Williard Wright ..... Williamsburg
Yanchus, Thomas V. ..... Masontown
Zimmerman, Julius ..... Pittsburgh

JUNIOR CLASS.

Alexander, Clayton L. ..... Ashville, N. Y.
Ardery, Robert Frederick ..... Avalon
Austin, Alvin Saint Clair ..... Pittsburgh
Bailey, Oakland K. ..... Titusville
Bailey, Roger S. ..... Titusville
Baker, Joseph Dewitt ..... Woodlawn
Barlow, Carleton D. ..... Homestead
Barr, George William ..... Claysville
Baughman, Charles ..... Irwin
Beatty, Othello Ziegler ..... Butler
Beaumont, Frank C. ..... New Cumberland, W. Va.
Blakemore, Marcus Peter ..... Pittsburgh
Bletzinger, Raymond Edward ..... Coraopolis
Bowers, Allen Raymond ..... Canonsburg
Bowman, Paul C. ..... Pittsburgh
Bowser, Randall C. ..... New Bethlehem
Brann, Paul John ..... Canton
Bromelmeier, Ralph H. ..... Fort Wayne, Ind.
Brown, Charles Henry ..... Pittsburgh
Camp, Harold R. ..... Sharon
Campbell, Harry Keith ..... Charleroi
Chain, G. Radnor ..... West Newton
Cook, James Lowman ..... Irwin
Cook, Wesley R. ..... Pittsburgh
Cooper, Edgar P. ..... Patton
Cowan, Wallace Forrest ..... Vandergrift
Cox, Ira James ..... New Salem
Crouse, Harold M. ..... Stahlstown
Curran, Thomas Leo ..... Duquesne
Detar, Reed Le Roy ..... Oil City
Dickey, George Elliott ..... Tarentum
Diller, Du Bois ..... Lancaster
Dunegan, Harry John ..... Patton
Dunegan, Howard Michael ..... Patton
Elyanoff, Ben ..... Pittsburgh
Engle, Rollin George ..... Butler

Erny, Howard Anthony ..... Pittsburgh
Eselman, Jacob Clifton ..... Cresson
Eshelman, Thomas Austin ..... Franklin
Estep, Russell G. ..... Duquesne
Evans, Charles M. ..... Pittsburgh
Fehr, Vankirk Edwin ..... McKeesport
Feingold, Abe ..... Pittsburgh
Fichthorn, Robert Foltz ..... Manorville
Fleming, Edward F. ..... Kane
Ford, Edward Anthony ..... Youngstown, O.
Foster, Morris ..... Pittsburgh
Freeburn, Harold Edgar ..... Johnstown
Friedman, Harry Meyer ..... Pittsburgh
Garbart, John Goodwin ..... Ingram
Gardner, Jesse Alter ..... Hoboken
Girt, Charles Henry ..... Elizabeth
Gold, Hosea Sylvester ..... Sagerstown
Goldstein, Charles ..... Pittsburgh
Goode, Plesent William ..... Mobile, Ala.
Grajewski, Frank B. ..... Pittsburgh
Greer, Lester Lamont ..... Canonsburg
Gross, Alexander Milton ..... Pittsburgh
Harrigan, Mark L. ..... Johnstown
Harrington, Gordon F. ..... Bentleyville
Harsch, Neville Edward ..... Olean, N. Y.
Haugh, Frederick Gilbert ..... Pittsburgh
Healy, Patrick Sarsfield ..... Altoona
Heasley, Paul Wayne ..... Brookville
Heinle, Edward William ..... Natrona
Herring, Charles Paul ..... Derry
Herskowitz, William ..... Wilkinsburg
Hertz, Louis O. ..... Pittsburgh
Hick, Thomas A. ..... Jamestown, N. Y.
Holland, Bailey Orlando ..... Hot Springs, Ark.
Holleran, Thomas Vincent ..... Pittsburgh
Hunger, George A. ..... Vandergrift
Hutchinson, Austin Purves ..... Aspinwall
Irwin, James Kolton ..... Ingram
Johns, Hector David ..... Wilmerding
Johnston, Walter G. ..... Du Bois
Jones, Noah Byron ..... Charleroi
Kahle, Standish C. ..... Knox
Kaplan, Edward ..... McKeesport
Keenan, William R. ..... Duquesne
Kistler, Alan Aloysius ..... Pittsburgh
Knoer, William Albert ..... Pittsburgh
Kohlman, George V. ..... Oil City
Krause, Morris Gilbert ..... South Brownsville
Lathrop, Miss Claire Helen ..... Emporium
Ledden, Daniel Carlyle ..... Rochester, N. Y.
Lehner, John ..... Pittsburgh
Lightfoot, Harold William ..... Monessen
Little, Tibertius A. ..... Johnstown
Luke, Robert James ..... Morganza
McClain, Fred Hunter ..... Mt. Union
McCutcheon, Joseph Eugene ..... Elm Grove, W. Va.
McDivitt, Francis Charles ..... Greensburg
McDonald, Charles Paul ..... Du Bois
McGovern, Thornton Le Roy ..... Brockport
McLean, John J. ..... Homestead
McNerny, Daniel J., Jr. ..... Greensburg
MacNulty, David Jay ..... Wellsboro
Malcolm, James A. ..... Pittsburgh
Malloy, Francis Bernard ..... Duquesne
Manwaring, Lewis Guy ..... Camden, N. J.
Marks, Harry ..... Pittsburgh
Marsh, Ralph Alphonse ..... Brookville
Miller, Herbert Lewellyn ..... Turtle Creek
Miller, Jonathan Franklin ..... Mt. Union
Moats, Bliss M. ..... Jamestown
Morgan, Charles, Jr. ..... Sharon
Nauhaus, Jacob N. ..... Mars
Nellis, Henry B. ..... Rochester, N. Y.
Nelson, Ray Charles ..... Martin
Niklewski, Edmund ..... Nanticoke
Norris, James L. ..... Homestead
Oartel, John Sheldon ..... Wilkinsburg
O'Connor, Charles F. ..... Pittsburgh

O'Donnell, Patrick Francis ..... Piedmont, W. Va.
Patterson, Orville Leroy ..... Sharon
Paul, Charles Edwin ..... South Fork
Pearce, James Newton ..... Saltsburg
Phillips, Edward Albert ..... Selinsgrove
Pollitt, Robert Charles ..... Erie
Potts, Harry E. ..... Greensburg
Prickman, William Robert, Jr. ..... Crafton
Purcell, Joseph Anthony ..... Erie
Quirk, Thomas Charles ..... Johnstown
Raffel, George ..... Pittsburgh
Rhodes, Harry R. ..... Corry
Rose, Earle A. ..... Leechburg
Rosenberg, Henry ..... Pittsburgh
Rubenstein, Boris ..... Pittsburgh
Ruder, Ernest O. ..... Mt. Pleasant
Rumbel, William Harold ..... Sharon
Sachs, Simon ..... Pittsburgh
Schafer, Nathan ..... Pittsburgh
Shaner, Floyd Lawrence ..... Canonsburg
Shoop, Victor ..... Freeport
Show, Thomas Ray ..... Confluence
Silverman, Max ..... Pittsburgh
Silves, Frank F. ..... Sligo
Singley, Walter Henry ..... Wilkinsburg
Smith, Robert Bruce ..... Rowlesburg, W. Va.
Smock, Uriel Kenneth ..... Meadville
Speer, John Francis Hunter ..... Crafton
Stein, Isadore Harvey ..... Pittsburgh
Storer, Charles Shaffer ..... Elizabeth
Tether, Sylvan Vincent ..... Hawley
Thompson, Edwin Homer ..... Bellevue
Thompson, Lony C. ..... West Alexander
Turner, Clair Plummer ..... Meadville
Twarry, Anthony James ..... Cleveland, Ohio
Unangst, Harry I. ..... Cochranton
Underwood, Francis Maxwell ..... Monongahela
Unangst, Francis Maxwell ..... Monongahela
Valinsky, Raymond H. ..... Pittsburgh
Veil, James F. ..... Punxsutawney
Wade, Walter F. ..... Edinboro
Walker, William Paul ..... Apollo
Westin, Victor Alexander ..... Turtle Creek
Wickerham, Ralph D. ..... Homestead
Wolfe, Gaylord Emil ..... McKeesport
Yourd, Raymond Atchison ..... Carnegie

SENIOR CLASS

Adams, Sherwood Merrill ..... Roaring Springs
Aitken, William James ..... Dickson City
Badger, Herman Joel ..... Butler
Bagley, Michael A. ..... Carbondale
Baker, Edward Ford ..... Erie
Bowser, Joseph T. ..... New Bethlehem
Brady, Gerald H. ..... Yonkers, N. Y.
Brickley, Arthur J ..... Tyrone
Bridges, Harold Metcalfe ..... Montreal, Canada
Crissey, Willis Stanford ..... South Fork
Crumpton, Robert Imbra ..... Turtle Creek
Davidson, Miss Mollie Naomi ..... Pittsburgh
Davidson, Ralph Edwin ..... Hickory
Donahue, Raphael A. ..... New Brunswick, N. J.
Duve, Justus Donald ..... Pittsburgh
Eagye, Vernon ..... Charleroi
Edwards, Harold William ..... Pittsburgh
Ekker, David Leonard ..... Sharon
Ewing, Frederick M. ..... Pittsburgh
Ferguson, Joseph Harris ..... Pittsburgh
Frank, Meyer Marcus ..... New Castle
Frost, Harry L. ..... East Liverpool, O.
Gardner, Donald Edward ..... Pittsburgh
Ginn, Edgar Orlo ..... McKeesport
Gottlieb, Edward P. ..... Turtle Creek
Grahame, Jacob Black ..... Donora

Gregory, William A. ..... Pittsburgh
Greene, Maurice R. ..... Pittsburgh
Greenberger, Benjamin ..... Aliquippa
Grissinger, Raymond ..... McConnellsburg
Hale, Edward E. ..... Rochester, N. Y.
Harper, Alvin R. ..... Coraopolis
Heefner, Henry Harbaugh ..... Waynesboro
Hether, Frederick F. ..... Greensburg
Hoffer, Harry ..... Winnipeg, Manitoba, Canada
Hoop, Thomas Jefferson ..... New Salem
Hupf, Vincent M. ..... Johnstown
Itscoitz, Louis Elder ..... McKeesport
Jamieson, Miss Anna Elliott ..... Pittsburgh
Karabasz, Joseph Theodore ..... Pittsburgh
Kaufman, Abe James ..... Pittsburgh
Kennedy, William Dean ..... Butler
Kibler, Everett Lawrence ..... Lock No. 4
Lasday, Isadore Allan ..... Munhall
LaVictoire, Miss Freda ..... Jeannette
Lawler, William Edward ..... Jessup
Levine, Nathan ..... Pittsburgh
Levy, Joseph ..... Pittsburgh
Lordon, Cornelius Joseph ..... Homestead
Lutz, Joseph Aloysius ..... Bridgeville
Lynam, Arthur J. ..... Johnstown
McBeth, George A. ..... McDonald
McClain, Robert Daniel ..... Mt. Union
McGinley, Wayne L. ..... Waynesboro
McQuone, Irwin William ..... Pittsburgh
Manon , Joseph Paul ..... Charleroi
Markowitz, Louis ..... McKees Rocks
Mathewson, John Donald ..... Windber
Merriman, Ralph George ..... Kane
Miller, Holmes Taylor ..... Irwin
Moffitt, William Durbin ..... Pittsburgh
Morrow, Sanley D. ..... Pittsburgh
Myers, William R. ..... Pittsburgh
Neff, Robert B. ..... Johnstown
Nowakowski, Stanley Felix ..... Pittsburgh
Nydes, Phillip C. ..... Pittsburgh
Peters, Frederick Charles ..... Jersey City, N. J.
Procyk, John ..... Greensburg
Ratner, Samuel ..... Pittsburgh
Rosenthal, Emanuel ..... Pittsburgh
Roth, Walter George ..... Altoona
Schwartz, Jacob Daniel ..... Pittsburgh
Seidel, Fred R. ..... Hazelton
Singer, Lewis Aaron ..... Pittsburgh
Steuer, Sylvester ..... Pittsburgh
Stone, William John ..... Beaver Falls
Taylor, John Frederick ..... Munhall
Urling, Lewis H. ..... Beaver
Virostek, Stephen Vincent ..... Braddock
Wampler, Joseph Kenney ..... Boswell
*Ward, Howard A. ..... Pittsburgh
Weightman, Lloyd Ellsworth ..... Greensburg
Wicks, Dwight Barnett ..... Johnstown
Wilson, Herbert Sterrett ..... Wilmerding
York, Saul ..... Pittsburgh
Zimmerman, Paul Berkey ..... Johnstown

* Died May, 1922.

OMICRON KAPPA UPSILON

Beta Chapter of the honorary dental fraternity was organized in 1915 and admits to membership those students of the senior class who rank highest in examinations and work during their entire course in college. This honor is limited to twelve per cent of the graduating class.

The following members of the 1922 class were elected to O.K.U.:

Edward Ford Baker	Anna Elliott Jamieson
Joseph T. Bowser	George Albert McBeth
J. Harris Ferguson	William Rankin Myers
Alvin Reed Harper	Walter George Roth
Frederick Friedel Hetner	Saul York

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The Dental Alumni Association holds its annual meeting on the day preceding Commencement Day, in the Amphitheatre of the Dental School.

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PITTSBURGH, PENNSYLVANIA

THE COLLEGE
SCHOOL OF ENGINEERING
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